

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/03

Date Received: 04/24/03

Project: Metro Self Monitor, PO# M90740, F&BI 304226

Date Extracted: 04/30/03

Date Analyzed: 04/30/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Chromium</u> | <u>Copper</u> | <u>Nickel</u> | <u>Zinc</u> |
|-----------------------------------|-----------------|---------------|---------------|-------------|
| M90740 304226-01 | 0.48 | 0.75 | 0.51 | 0.06 |
| Method Blank | <0.05 | <0.05 | <0.05 | <0.05 |

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 304226-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|----------|-----------------|---------------|------------------|-----------------------------|---------------------|
| Chromium | mg/L (ppm) | 0.48 | 0.48 | 0 | 0-20 |
| Copper | mg/L (ppm) | 0.75 | 0.75 | 0 | 0-20 |
| Nickel | mg/L (ppm) | 0.51 | 0.51 | 0 | 0-20 |
| Zinc | mg/L (ppm) | 0.06 | 0.08 | a | 0-20 |

Laboratory Code: 304226-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | % Recovery MS | Acceptance Criteria |
|----------|-----------------|-------------|---------------|---------------|---------------------|
| Chromium | mg/L (ppm) | 2 | 0.48 | 89 | 80-120 |
| Copper | mg/L (ppm) | 2 | 0.75 | 88 | 80-120 |
| Nickel | mg/L (ppm) | 4 | 0.51 | 88 | 80-120 |
| Zinc | mg/L (ppm) | 2 | 0.06 | 91 | 80-120 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | % Recovery LCS | % Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|----------|-----------------|-------------|----------------|-----------------|---------------------|----------------|
| Chromium | mg/L (ppm) | 2 | 93 | 96 | 80-120 | 3 |
| Copper | mg/L (ppm) | 2 | 95 | 97 | 80-120 | 2 |
| Nickel | mg/L (ppm) | 4 | 93 | 95 | 80-120 | 2 |
| Zinc | mg/L (ppm) | 2 | 92 | 96 | 80-120 | 4 |

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 1, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

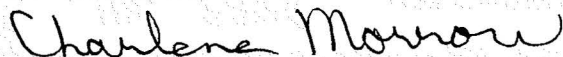
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 24, 2003 from the Metro Self Monitor, PO# M90740, F&BI 304226 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0501R.DOC

304226

SAMPLE CHAIN OF CUSTODY

Cm 04124103 AI₁

Send Report To G. J. Thompson

Company Alaskan Copper works

Address 628 S. Harvard St

City, State, ZIP Seattle WA 98134

Phone # 206-382-8379 Fax # 206-382-4509

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

METRO SELF Monitor

M 90740

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples

- ☐ Will call with instructions

[illegible]

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

~~Relinquished by:~~

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Tara E. Debraff

COMPANY

ACH

FBI

DATE _____

4/24/05

04/24/03 1:08 PM

TIME

1.07 pm

FRIEDMAN & BRUYA, INC.

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May 1, 2003

DUPLICATE COPY

INVOICE # 03ACU0501-3

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M90740, F&BI 304226 - Results of testing
requested by Gerry Thompson for material submitted on April 24, 2003.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due \$ 80.00

FEDERAL TAX ID #(b) (6)